

Klübersynth GE 46-1200

Synthetic long-term fluid grease with excellent anticorrosive effect



Your benefits at a glance

- Reliable lubricant film formation in a wide service temperature range
- Good wear protection and high pressure absorption capacity
- Optimised friction behaviour leading to higher efficiency
- Good seal life due to excellent compatibility
- Excellent backflow to the friction point
- Excellent ageing and oxidation resistance for long service life

Your requirements - our solution

Small gear systems demand high efficiency and a lubricant with a wide temperature range along with a long service life.

Our fully synthetic long-term fluid gear grease Klübersynth GE 46-1200 based on a polyglycol base oil and a lithium soap thickener was especially developed to meet the tough requirements of advanced small gears.

The combination of base oil and additives offers optimised wear protection under mixed friction and good pressure absorption capacity in the lubrication of gears. Klübersynth GE 46-1200 also offers excellent corrosion protection and good compatibility with sealing elastomers. The consistency of this fluid grease has been tuned to enable excellent backflow and hence a constant supply to the friction point.

Please do not hesitate to contact our experts regarding the demands in your own application.

Application

We developed Klübersynth GE 46-1200 on the basis of our long experience in the lubrication of spur, bevel and worm gears. Especially for steel/steel combinations, for example in small and miniature gears, gear motors and power tool gears, Klübersynth GE 46-1200 offers outstanding performance characteristics. Medium peripheral speeds of 4-5 m/s can be effectively handled by this grease. It also provides vibration and noise damping. Klübersynth GE 46-1200 can also be used to optimise the lubrication of ball and roller guides, plain and rolling bearings, and toothed couplings from

– 30 to 120 °C. It may even be applied at extreme temperatures down to –50 °C since Klübersynth GE 46-1200 will build up a load-carrying lubricant film at these low temperature conditions.

Application notes

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Compatibility with elastomers 72 NBR 902, 100 °C, 168 hrs:

Change in volume [%]	< = 3
Change in hardness [Shore A] approx	approx. –3

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes

Cartridge 400 g

Klübersynth GE 46-1200

+

Klübersynth GE 46-1200

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Pack sizes	Klübersynth GE 46-1200
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	Klübersynth GE 46-1200
Article number	027035
Colour space	brown
Texture	homogeneous
Density, Klüber method: PN 024, 20°C	approx. 0.99 g/cm ³
NLGI grade, DIN 51818	00
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	400 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	430 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹	≤ 2000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 20 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 120 mm ² /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
Dropping point, DIN ISO 2176 / IP 396	≥ 160 °C
FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, change of weight	< 0.2 mg/kWh
FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, failure load stage	> 12
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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